

CLIMATOLOGICAL DATA FOR OCTOBER, 1913.

DISTRICT NO. 2, SOUTH ATLANTIC AND EAST GULF STATES.

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GENERAL SUMMARY.

Over large portions of the district, especially in the Gulf States, unusually fine weather prevailed during the first 17 days of October, 1913. The temperature was generally above normal, but little rain fell, bright days predominated, and conditions were favorable for outdoor work. However, in Virginia, the Carolinas, and Mississippi considerable rain fell during this period.

Sharply contrasting conditions prevailed during the remainder of the month. General rains fell over the district on the 18th to 20th, terminating in snow flurries on the 20th, an unusually early date for snow, followed by decidedly colder weather with freezing temperatures and killing frosts over most of the district, except along the immediate coast line, on the 21st or 22d, or from one to two weeks earlier than the average date for the first killing frosts in autumn. The area of freezing weather extended as far south as northern Florida. After the 19th temperatures were continuously below normal, with most marked deficiencies on the 28th to 31st, when killing frosts again occurred. A period of general rains from the 23d to 26th was followed by lighter and more irregularly distributed precipitation to nearly the close of the month.

The first marked barometric depression for October was that which entered the district from the Atlantic Ocean near Charleston on the 8th, the pressure at that point falling to 29.58 inches. This was a small disturbance rapidly diminishing in force, but it was accompanied by heavy rains over southeastern North Carolina and the adjacent portions of South Carolina. On the morning of October 19 a moderate depression was evident over northern Georgia and western Carolina, which increased in depth to below 29.3 inches at Buffalo, N. Y., on the morning of the 20th, and was followed by the abrupt change to colder weather with snow flurries and freezing weather already referred to. High westerly winds prevailed on the 20th over the district as far south as Thomasville, Ga., and as far west as Meridian, Miss., with a maximum velocity of 60 miles at Norfolk, Va. The lowest atmospheric pressure for the district was 29.33 inches at Richmond, Va., on the 20th. On the last day of the month the atmospheric pressure reached a maximum at all stations in the district, Richmond recording 30.51, and Birmingham, Ala., 30.52 inches.

TEMPERATURE.

Monthly mean temperatures were generally slightly above normal in Virginia and North Carolina, normal in South Carolina, and decidedly below normal in all of the Gulf States. The greatest deficiencies at individual stations occurred in north-central Florida, and in northern

Alabama, the regular stations at Birmingham and Anniston, Ala., reporting each a departure of -4° . These deficiencies resulted entirely from the unusually low temperatures that prevailed during the last decade, since the weather was quite warm in the south from the 1st to the 19th, the abrupt change to colder occurring on the 20th.

The highest temperatures were generally registered in the northern portion of the district on the 1st, though high temperatures continued at many stations as late as the 17th; in the south the warmest weather prevailed from about the 8th to 11th. Maximum temperatures ranged above 90° in all portions of the district, except in Virginia. Orange City, Fla., reported 98° on the 2d, though generally the 10th was the warmest day in Florida.

In the Northern States temperatures somewhat below normal were registered early in the month, especially in Virginia, about the 3d to 7th and 13th to 15th, with killing frosts in the mountain portions of Virginia on the 14th, but generally the coldest day was the 22d and in the Gulf States the 21st. Freezing temperatures occurred on these dates as far south as north-central Florida, and only stations on the immediate South Atlantic and Gulf coasts escaped killing frosts. A minimum temperature of 29° was registered at Richmond, Va., 34° at Montgomery, Ala., and 30° at Atlanta, Ga., all of which are equal to or below previously established records for October. A second period of decidedly cold weather prevailed from the 28th to the close of the month, with freezing temperatures and killing frosts over the interior and light to heavy frost on the Gulf and Atlantic coasts. The minimum temperatures for the month were below freezing at some points in all sections, ranging from 20° at Hot Springs, Va., and Cullman, Ala., to 31° at Mount Pleasant and Garnier, Fla.

PRECIPITATION.

The rainfall for October was moderately above normal in Virginia, the Carolinas, and Mississippi; in these States showers occurred from the 1st to 3d and from the 7th to 12th, as well as during the subsequent periods of general rains from the 18th to 20th and 23d to 26th; while in Georgia, Florida, and Alabama, in which States the precipitation was below normal, the first 17 days were generally fair. The State averages indicate an excess of 1.55 inches for North Carolina (but +2.49 for the eastern district) and a deficiency of 1.13 inches for Florida.

The heavy rains in eastern North Carolina were associated with the disturbance that moved from the Atlantic Ocean to the interior over Charleston, S. C., about the 8th. Excessive rains fell from the 7th to 10th, and the total for

the month was 11.95 inches at Lumberton and 10.14 inches at Wilmington, the largest amounts on record for October at those stations. The region of heavy rainfall extended to the northeastern part of South Carolina, Dillon reporting 8.58 inches. The maximum rainfall in 24 hours during this storm was 4.39 inches at Charleston, S. C., on the 8th-9th.

Heavy 24-hour rains also occurred at a large number of stations during the period of general rains from the 23d to 26th, with the maximum for the district, 6 inches on the 24th, at Rocky Mount, N. C.

As a rule, over most of the district the precipitation was fairly well distributed. Amounts less than 1 inch occurred at a few scattered stations in Georgia, Alabama, and Florida, with the least, 0.30 inch, at Waynesboro, Ga., just south of Augusta.

On the 20th snow flurries fell at 14 stations in northern Georgia, at 5 in northeastern Alabama, at 6 in South Carolina, and at 4 each in North Carolina and Virginia, but no appreciable amount was measured at any point.

MISCELLANEOUS PHENOMENA.

West to northwest winds prevailed over most of the district, except that northeast was the prevailing direction in Florida. The wind movement was large, the average hourly velocity reaching 16 miles at Hatteras, 14 at Norfolk, and 12 at Atlanta and Pensacola. Gales exceeding 40 miles an hour occurred at 11 of the regular Weather Bureau stations. Some of the maximum velocities on the 20th were Richmond, Va., 49 miles; Norfolk, 60; Lynchburg, 42; Hatteras, N. C., 56; and Raleigh, 45, the maximum wind velocity on record at that place for October. The velocity reached 50 miles an hour at Atlanta and 48 at Savannah, Ga.

The average number of clear days for the district ranged from 15 in Mississippi to 22 in Georgia, while the

number of cloudy days was but 7. The average number of rainy days was also 7.

The average actual number of hours of sunshine for the district was 227, or 65 per cent of the possible amount. The maximum percentage was 73, at Charlotte, and the minimum 53, at Hatteras, N. C.

A few local thunderstorms occurred. During a severe electrical storm at Hatteras, N. C., on the early morning of October 25, a life-saver who was patrolling the beach about 5 miles north of the station was killed by lightning, though the horse on which he rode was quite uninjured.

RIVER CONDITIONS.

Flood stages were not reached in any of the rivers in the Gulf States. Navigable stages obtained during the first week of October in the lower Black Warrior and the lower Tombigbee was navigable for light-draft steamers to Demopolis during the first decade. A moderate rise occurred in the West Pearl River, La., about the 8th. In most of Alabama and in Georgia the rivers were below normal stages and the fluctuations were very small.

In South Carolina moderate freshets occurred in the Santee River at Rimini between the 27th and 30th and in the Waccamaw at Conway 26th to 27th. The mean stage of the Waccamaw, which parallels the coast, has been exceeded but twice in October during the past 20 years, namely, in 1894 and 1901. Its high average stage was due principally to the heavy rainfall along the coast in connection with the storm of the 8th.

Moderate overflows also occurred in the Tar River at Greenville, N. C., and in the Neuse at Smithfield, for which warnings were issued. A crest stage of 14.3 feet was reached at Greenville (flood stage 13 feet) on the 30th and 13.7 feet at Smithfield on the 26th (flood stage 13 feet), but no damage resulted.

TABLE 1.—Climatological data for October, 1913. District No. 2, South Atlantic and East Gulf States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.			
Virginia.																		
Arvonia.	Buckingham.	350	2	58.4	+ 1.7	80	1	27	22	35	3.38	+ 0.10	1.10	0	12	n.	Rev. Plummer F. Jones.	
Ashland.	Hanover.	221	22	59.2	+ 1.4	78	1	27	22	30	3.18	- 0.44	1.59	0	8	nw.	E. L. C. Scott.	
Buchanan.	Botetourt.	820	9								4.65	+ 1.08	1.17	0	11		D. D. Booze.	
Callaway.	Brunswick.	250	19	60.3	+ 1.8	85	1	23	22	40	3.97	+ 1.12	1.50	0	7	s.	F. M. Gage.	
Cape Henry.	Princess Anne.	20	39	62.6	+ 0.5	82	1	42	23	23	2.19	- 1.69	0.81	0	8	n.	U. S. Weather Bureau.	
Catawba.	Roanoke.	1,760	2	56.4		75	16	25	22	30	4.39		1.22	T.	8	w.	State Board of Health Sanitarium.	
Charlottesville.	Albermarle.	800	24	57.3				33	22		6.46	+ 2.98	1.65	0	14		Leander McCormick Observatory.	
Clarksville.	Mecklenburg.	286	19								3.20	+ 0.56	1.80	0	7	w.	J. A. Ligon.	
Columbia.	Fluvanna.	246	15	57.6	+ 0.4	78	1	24	22	35	2.92	- 0.55	1.67	0	7	nw.	Chesapeake & Ohio Ry. Co.	
Danville.	Pittsylvania.	413	13								3.78	+ 0.79	1.45	0	8		C. G. Watkins.	
Diamond Springs.	Princess Anne.	25	3	62.6		82	8	35	23		3.08		0.92	0	9		Virginia Truck Experiment Station.	
Dry Bridge.	Chesterfield.	325	3								3.28		0.97	0	12		Dr. E. W. Magruder.	
Hot Springs.	Bath.	2,195	21	54.2	+ 2.9	84	11	20	22	37	4.69	+ 1.67	1.40	T.	6		A. M. Tait.	
Ivor.	Southampton.	87	4	60.5		82	1	24	22	40	3.96		2.10	T.	6		Norfolk & Western Railway Experiment Farm.	
Lassiter.	Goochland.	100	3								2.55		1.00	0	8		T. J. Davis.	
Lexington.	Rockbridge.	1,060	36	56.3	+ 1.9	81	3	24	22	40	4.57		1.07	0	11		Virginia Military Institute.	
Lynchburg.	Campbell.	685	13	59.7	+ 2.8	85	5	30	22	39	3.30	- 0.08	1.27	0	11		U. S. Weather Bureau.	
Newport News.	Warwick.	55	10	61.8		83	1	32	22	27	3.42		1.88	0	11		C. W. Ashby.	
Norfolk.	Norfolk.	91	43	62.2	+ 0.9	79	1	24	22	24	6.63	- 1.28	3.34	0	13		Walter Edward Harris.	
Petersburg.	Dinwiddie.	60	26	61.0	+ 2.6	84	10	30	22	30	1.65	- 1.55	0.63	0	8		W. J. Abbot.	
Randolph.	Charlotte.	334	9								3.08		1.34	0	4		Dr. Jesse Ewell.	
Richmond.	Henrico.	144	34	60.2	+ 0.4	81	1	29	22	29	3.95	+ 0.63	2.66	0	13		B. W. Jones.	
Roanoke.	Roanoke.	907	3	57.4		80	5	25	22	43	4.50		1.09	T.	0		Miss Etta Rickman.	
Rocky Mount.	Franklin.	1,150	19	59.8	+ 2.7	84	1	24	22	40	4.24	+ 0.36	1.25	0	10		C. L. Maskey.	
Ruckersville.	Greene.	635	2	57.4		83	6	24	22	30	5.93		2.48	0	10		Eastern State Hospital.	
Runnymede (near).	Surry.	15	25	60.6	+ 2.7	80	1	26	22	32	5.62	+ 1.60	2.69	0	8			
Stuart.	Patrick.	1,188	1	55.3		81	5	21	22	44			T.	0	12			
West Point.	King William.	15	1	61.3		83	2	31	22	33	3.89		1.72	0	11			
Williamsburg.	James City.	70	22	61.0	+ 2.2	80	1	30	22	30	4.15	+ 0.78	2.35	0	6			
North Carolina.																		
Albemarle.	Stanly.	700	1	60.2		86	1†	25	22	46	2.22		0.90	0	9	sw.	M. J. Harris.	
Altapass (near).	McDowell.	2,133									3.53		1.69	0	6		R. F. Brewer.	
Beaufort.	Carteret.	10	12	66.0	+ 0.6	80	1†	39	22	24	6.59	+ 1.13	1.25	0	13		Lewis Radcliffe.	
Belhaven.	Beaufort.	4	4	63.0		82	8†	31	22	39	2.85		1.25	0	6		A. L. Bell.	
Brewers.	Wilkes.	1,950	16	58.8	- 0.0	86	5	27	22	47	5.08	+ 0.82	1.30	T.	11		W. L. Brewer.	
Caroileen.	Rutherford.	306	13	59.4	- 0.4	84	6	29	31	39	4.57	+ 2.12	2.45	0	5		S. B. Tanner.	
Chalybeate Springs.	Harnett.	500	7	60.4		86	1†	23	23	43	5.38		2.75	0	7		J. A. Smith.	
Chapel Hill.	Orange.	500	55	61.0	+ 1.1	85	1	31	22	41	3.86	- 0.39	1.24	0	7		Prof. A. H. Patterson.	
Charlotte.	Mecklenburg.	773	37	61.0	- 0.1	83	5	34	21	30	2.29	- 0.86	0.96	0	6		U. S. Weather Bureau.	
Chimney Rock.	Rutherford.	1,500	3	59.6		85	18	27	22	36	6.06		4.00	0	4		J. M. Flack.	
Durham (near).	Durham.	406	4								2.74		1.10	0	6		J. C. Michie.	
Eagleton.	Northampton.	68	8	61.6		81	6	28	22	35	4.10		1.40	0	11		J. T. Elliott.	
Edenton.	Chowan.	30	19	63.6	+ 2.2	86	2	31	22	31	5.01	+ 0.58	1.90	0	9		E. R. Conger.	
Elizabeth City.	Pasquotank.	8	1	62.6		85	9	31	22	34	3.10		1.20	0	5		W. J. Simmons.	
Elizabethtown.	Bladen.	60	2								8.00		3.90	0	7		H. H. Barnhill.	
Elkin.	Surry.	874									4.50		1.87	T.	8		Mrs. Cynthia L. Myers.	
Enfield (near).	Halifax.	99	2								6.30		4.30	0	12		T. S. Inborden.	
Fayetteville.	Cumberland.	170	26	63.6	+ 1.6	88	1†	29	22	33	5.58	+ 2.10	3.40	0	7		Frank Glover.	
Globe (near).	Caldwell.	1,800	1								4.88		2.51	0	6		Julius L. Tragg.	
Goldsboro.	Wayne.	102	43	59.7	- 1.8	84	1	29	22	38	3.82	+ 0.62	1.80	0	10		Mrs. J. J. Robinson.	
Gorge.	Caldwell.	1,358	1								4.21		2.05	0	7		A. J. Bagley.	
Graham.	Alamance.	656	11								3.52	+ 0.57	1.25	0	9		Dr. W. R. Goley.	
Greensboro.	Guildford.	843	32	59.1	- 1.1	80	1†	29	22	32	3.11	+ 0.20	1.26	0	8		A. H. Horry.	
Greenville.	Pitt.	75	20	61.7	- 0.7	87	18	33	21	30	4.77	+ 1.49	0.85	0	14		R. M. Hearne.	
Hatteras.	Dare.	11	39	65.6	- 0.4	80	1	45	22	24	6.93	+ 0.92	3.49	0	10		U. S. Weather Bureau.	
Henderson.	Vance.	508	20	59.6	- 0.1	82	1	30	22	27	6.73	+ 3.57	2.51	0	9		Enoch Powell.	
Hickory.	Catawba.	1,165	61	62		86	5	30	22	39	3.72		2.00	0	8		Frank B. Gwin.	
Kings Mountain.	Cleveland.	958	1	61.2		83	1†	31	21	37	3.29		1.24	0	6		G. T. King.	
Kinston.	Lenoir.	46	15	63.2	+ 0.8	86	16	29	21	41	3.20	+ 0.57	1.06	0	11		H. C. V. Peebles.	
Louisburg.	Franklin.	375	22	61.6	+ 2.7	83	1†	28	22	38	4.84	+ 1.94	1.88	0	7		T. B. Wilder.	
Lumberton.	Robeson.	102	30	62.0	+ 0.3	81	1	31	22	41	11.95	+ 8.73	4.57	0	9		B. M. Davis.	
Manteo.	Dare.	12	8	62.2		83	1	37	23	31	3.96		2.80	0	8		U. S. Weather Bureau.	
Marion.	McDowell.	1,425	21	57.8	- 0.7	83	11	28	22	38	4.40	+ 0.17	2.14	T.	0		Sgt. Thomas McGuire.	
Monroe.	Chatham.	145	19	59.7	- 0.2	85	1†	24	22	44	4.06	+ 1.57	1.81	0	10		B. J. Utley.	
Morganton.	Union.	580	19	60.0	+ 0.1	85	5†	26	22	44	3.28	- 0.21	1.16	0	6		T. A. Ashcraft.	
Mount Airy.	Burke.	1,135	26	58.6	+ 1.3	84	5†	30	22	41	6.20	+ 2.58	2.80	0	8		J. B. Massey.	
Mount Holly.	Surry.	1,048	25	58.3	+ 2.2	82	11	26	22	41	4.43	+ 1.74	1.22	0	6		Prof. A. H. Merritt.	
Nashville.	Gaston.	616	16								2.81	- 0.15	1.00	0	6		J. W. Holland.	
Nash.	Wash.	190	9	61.6		90	1	28	22	42	6.67		3.65	0	8		J. B. Boddie.	
Neuse.	Wake.	268	1								4.18		2.04	0	6		E. M. Allen.	
Newbern.	Craven.	12	31	63.2	+ 0.4	89	9	33	22	36	6.70	+ 2.39	1.99	0	11		J. B. Hill.	
N. Wilkesboro (near).	Wilkes.	1,700	1								6.78		3.08	0	6		Dr. Charles A. Willis.	
Pinehurst.	Moore.	650	9	61.1		86	1†	28	14†	45	2.04		0.62	0	7		General Office.	
Pittsboro.	Chatham.	480	20	58.8	0.0	83	1	24	22	41	4.65	+ 1.68	1.80	0	6		Mrs. J. F. Alston.	
Raleigh.	Wake.	390	42	61.5	+ 1.0	82	17	34	22	26	4.11	+ 0.61	1.93	0	9		U. S. Weather Bureau.	
Ramsour.	Randolph.	442	6	59.9		87	6	25	22	46	2.21		1.40	T.	6		A. H. York.	
Randleman.	do.	810	3								2.20		0.42	0	3		I. D. Mendenhall.	
Reidsville.	Rockingham.	828	14															

TABLE 1.—Climatological data for October, 1913. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.				
North Carolina—Con.																					
Southport.	Brunswick.	18	58	65.3	-0.5	86	11	35	22	30	9.76	+4.89	4.40	0	9	16	5	10	sw.	Mrs. C. E. Taylor.	
Statesville.	Iredell.	950	25	59.9	+1.5	84	16	26	22	39	4.58	+1.18	1.52	0	5	17	10	4	sw.	D. Matt Thompson.	
Tarboro.	Edgecombe.	50	23	62.3	+1.7	86	9	29	22	38	4.85	+1.26	3.07	0	8	14	8	9		E. V. Zoeller.	
Tryon (near).	Polk.	1,300	1								2.10		1.10	0	3					W. T. Lindsey.	
Weldon.	Halifax.	81	41	60.0	+0.7	80	17	59	32	33	6.33	+2.89	3.35	0	10	11	10	10	w.	H. S. S. Cooper.	
Willard.	Fender.	51	5	63.0		85 ^a	7 ^t	30	22	39	6.84		2.46	0	6	19	0	12	n.	J. H. Jefferies.	
Wilmington.	New Hanover.	52	42	63.8	+0.5	85	17	37	31	27	10.14	+6.40	3.63	0	14	13	8	12	w.	J. S. Weather Bureau.	
Winston-Salem.	Forsyth.	1,000	18	68.0	+0.3	81	1 ^t	21	22	46	2.65	-0.03	1.33	0	6	21	1	9	nw.	Rev. H. E. Rondthaler.	
South Carolina.																					
Aiken.	Aiken.	527	18	63.1	-0.6	89	9	34	21	36	1.59	-1.01	0.76	0	3	20	3	8	se.	W. M. Brown.	
Allendale.	Barnwell.	186	24	64.0	-0.5	90	1	33	22	38	3.60	+1.32	2.00	0	5					S. B. Rouse.	
Anderson.	Anderson.	764	11	62.2	-1.0	86	3	32	31	37	3.70	+0.87	2.00	0	6	20	2	9	w.	H. H. Russell.	
Batesburg.	Lexington.	658	24	61.9	-0.7	85	1	34	22	33	2.58	+0.49	0.96	0	6	23	3	5		E. J. Hite.	
Beaufort.	Beaufort.	21	26	65.4	-2.0	86	11	38	20	31	1.37	-1.88	1.20	0	2					Miss Lillian H. Rice.	
Blackville.	Barnwell.	296	23	63.6	-0.5	90	1	31	22	41	2.77	-0.09	1.35	0	7					Mrs. D. B. Sanders.	
Blairs.	Fairfield.	293	7																	J. N. Owens.	
Bowman.	Orangeburg.	160	11	62.6	-1.2	88	1	28	22	43	2.82	-0.06	0.83	0	6	20	5	6	w.	B. O. Evans.	
Broxton.	Hampton.	508	2								1.62		0.70	0	4					Thomas D. Williams.	
Calhoun Falls.	Abbeville.	508	19								2.40	+0.37	0.96	T.	4					L. M. Parker.	
Camden.	Kershaw.	222	46	64.0		89	1	35	21	40	2.88		0.75	0	6	21	3	7	ne.	W. C. Brown.	
Catawba.	York.	562	7								2.00		0.90	0	7					James C. Faris.	
Chappells.	Newberry.	402	7								6.66	+2.72	4.39	0	11	16	5	10	w.	U. S. Weather Bureau.	
Charleston.	Charleston.	48	42	66.1	-1.0	89	1	39	21	25	6.16	+3.49	3.08	0	11	5	2	4	w.	J. H. Powe.	
Clemson College.	Chesterfield.	144	24	62.1	-1.4	86	1	29	22	40	3.25	-0.42	1.86	T.	5	25	2	4		Prof. F. H. H. Calhoun.	
Columbia.	Oconee.	850	21	59.9	-1.2	82	9	31	31	33	1.96	-0.59	0.62	0	8	17	8	6	ne.	U. S. Weather Bureau.	
Conway.	Ritchland.	351	26	62.5	-1.5	86	1	35	22	33	2.85	+4.95	2.85	0	7	17	0	14	nw.	Paul Quattlebaum.	
Dillon.	Horry.	25	20	63.6	-0.8	90	1	34	22	36	2.85	-0.06	1.00	0	9					A. E. Rowell.	
Edgefield.	Marion.	100	8	62.9	-0.3	88	1	32	22	39	2.58	+5.51	3.17	0	11					T. L. Timmerman.	
Edisto.	Edgefield.	127	25								2.26		0.79	0	4					Nathan Jenkins.	
Effingham.	Bamberg.	106	20								2.43	+1.17	1.12	0	6					H. B. McCall.	
Ferguson.	Florence.	51	4	62.8	-1.1	89	1	30	22	43	6.25	+3.32	2.00	0	7					Joseph P. Simons.	
Florence.	Berkeley.	138	24	61.7	-1.2	90	1	36	23	38	7.28	+4.48	3.10	0	9					J. K. Gilbert.	
Gaston Shoals.	Cherokee.										3.31		1.34	0	9					Harry A. Parshall.	
Georgetown.	Georgetown.	12	19	65.3	+0.5	87	1	34	22	33	4.80	+1.42	2.20	0	4	21	4	6	nw.	A. P. Hazard.	
Greenville.	Greenville.	989	29	59.4	-0.4	82	8	30	31	35	3.65	+0.89	1.36	T.	5	24	0	7	w.	Spartan Goodlette.	
Greenwood.	Greenwood.	671	24	62.0	-0.4	86	11	32	31	36	2.93	+0.38	0.92	0	5					M. M. Calhoun.	
Heath Springs.	Lancaster.	568	11	60.9		89	3	29	22	36	2.11		1.13	0	5	16	7	8	w.	J. Marvin Bowers.	
Kingtree.	Williamsburg.	54	24	62.4	-1.3	90	1	30	22	42	7.28	+4.78	3.60	0	4					A. O. Matthews.	
Liberty.	Pickens.	900	18	60.4	-0.6	85	10	29	31	40	2.84	-0.03	1.84	T.	7	20	7	4	sw.	John T. Boggs.	
Little Mountain.	Newberry.	711	19	63.4	-0.1	85	1	34	21	27	2.44	-0.39	1.00	0	5	24	0	7	ne.	J. M. Sease, M. D.	
Merlweather.	Edgefield.	3	63.0			90	11	31	22	44	1.11		0.96	0	2	17	7	7		William S. Middleton.	
Monetta.	Saluda.	502	1	62.9		86	11	35	21	32	1.83		0.96	0	5	19	5	7	sw.	Joseph M. Johnson.	
Newberry.	Newberry.	502	8	61.2	-0.7	86	1	32	22	38	3.03	+0.18	1.05	T.	7	15	9	7	w.	W. G. Peterson.	
Pelzer.	Anderson.	873	7								3.36		1.10	0	4					Guy F. Parler.	
St. George.	Dorchester.	109	24	62.4	-1.5	89	1	29	22	46	2.70	+0.54	1.40	0	4					J. S. Wannamaker.	
St. Matthews.	Orangeburg.	269	24	62.8	-1.2	89	1	32	22	38	3.40	+0.98	1.25	0	6					Mrs. F. R. Middleton.	
Saluda.	Saluda.	536	10	62.0		91	4 ^t	30	21	46	2.35		1.30	0	5	21	7	3	w.	E. W. Jeter.	
Santuck.	Unim.	512	17	61.6	-0.7	88	1	31	22	36	2.82	-0.31	1.26	T.	7	13	13	5	w.	W. G. Walker.	
Smiths Mills.	Georgetown.	62	17								7.74	+4.30	3.38	0	6					Rev. T. Ellison Simpson.	
Society Hill.	Darlington.	192	15	61.3	-0.0	88	16	29	21	40	4.51	+1.41	2.00	0	7	19	4	8	nw.	F. P. Robinson.	
Spartanburg.	Spartanburg.	875	21	59.9	-0.8	85	8	31	31	40	3.60	+1.12	1.80	0	5					Miss E. H. Gadsden.	
Summerville.	Dorchester.	75	15	63.0	-1.4	86	1	32	22	32	5.90	+3.28	2.60	0	5	3	26	2	sw.	C. A. Long.	
Trenton.	Edgefield.	620	13	63.8	-0.1	95	5	34	21	40	1.81	-1.33	0.95	0	5	20	5	6	w.	J. W. Seigler.	
Winnsboro.	Fairfield.	545	22	61.2	-2.1	83	5	32	23	33	2.90	-0.20	0.80	0	5	22	7	2	se.	J. W. Goodman.	
Winthrop College.	York.	690	13	61.4	-0.4	89	5	31	21	40	2.72	+0.29	2.00	0	4	14	12	5	sw.	J. G. Hutson.	
Yemassee.	Hampton.	24	17	62.2	-2.2	89	1	28	22	41	1.98	-0.61	0.94	0	5						
Georgia.																					
Abbeville.	Wilcox.	180	10	59.6	-1.6	88	10	26	21	42	1.76	+0.21	0.98	0	4	21	0	10	w.	W. H. Calhoun.	
Adairsville.	Bartow.	772	21	59.6	-2.3	93	11	34	21	40	1.22	-0.25	0.65	T.	4	24	0	7		Mrs. R. C. Evins.	
Albany.	Dougherty.	232	26	65.2	-2.3	93	10 ^t	32	21	46	2.52	+0.25	1.53	0	4	25	2	4	nw.	George C. Brosnan.	
Allapaha.	Berrien.	293	23	64.2	-2.4	93	10 ^t	33	22	44	1.85	-0.50	1.09	0	6	22	5	4	w.	J. F. Rice.	
Americus.	Sumter.	362	28	61.4	-4.7	86	10 ^t	33	21	36	2.33	+0.14	1.28	0	3	23	1	6		Joseph M. Bryan.	
Athens.	Clarke.	694	31	60.6	+1.1	87	10 ^t	29	31	37	4.03	+1.51	2.53	T.	6	24	1	6	w.	C. D. Cox.	
Atlanta.	Fulton.	1,218	45	60.0	-1.6	85	10	30	21	26	2.24	-0.07	1.02	T.	8	17	5	9	w.	U. S. Weather Bureau.	
Augusta.	Richmond.	180	67	62.9	-1.4	88	11	36	22	35	2.23	-0.10	1.34	0	6	17	7	7	sw.	Do.	
Bainbridge.	Decatur.	119	21	63.7	-3.5	93	9	33	21	45	2.47	+0.07	1.82	0	4	19	1	11		W. H. Morrow.	
Butler.	Taylor.	650	12								2.08		0.44	0.91	0	4	24	3	4	sw.	Mrs. M. F. Wallace.
Camak.	Warren.	613	21	64.4	+1.3	92	10 ^t	33	31	37	1.08	-1.49	0.73								

TABLE 1.—Climatological data for October, 1913. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Georgia—Continued.																				
Highland Dam.	Muscogee.										2.27	0.90	0	5	22	0	9	sw.		
Jesup.	Wayne.	101	18	60.3	—	88	11	33	21	—	1.22	2.50	0	3	24	4	3	W. C. Tibbs.		
Lisbon.	Lincoln.	326	6	60.3	—	88	11	29	31	44	2.99	1.40	T.	3	10	15	6	W. L. Belcher.		
Lost Mountain.	Cobb.	1,175	13	58.0	—	3.9	83	9	31	21	—	0.24	T.	6	17	14	0	B. J. DuBoise.		
Louisville.	Jefferson.	259	20	63.2	—	1.3	86	11	34	22	34	2.10	—	0.26	0	20	4	A. N. Mayes.		
Lumber City.	Telfair.	150	4								1.44	0.65	0	3	24	2	5	J. C. Little.		
Lumpkin.	Stewart.	650	18	63.6	—	2.9	89	10	34	21	34	2.11	—	0.37	1.44	0	18	8	Walter A. Hilton.	
Macon.	Bibb.	370	32	62.0	—	2.5	88	11	35	21	39	1.82	—	0.22	1.11	0	22	6	R. T. Humber.	
Marshallville.	Macon.	500	20	63.5	—	2.0	88	6	30	21	38	3.28	+	1.00	2.10	0	20	6	U. S. Weather Bureau.	
Milledgeville.	Baldwin.	276	25	61.6	—	1.5	88	11	33	22	35	2.24	—	0.02	1.36	0	24	1	E. C. Bryan.	
Millen.	Jenkins.	158	25	64.1	—	0.9	95	11	31	22	47	1.50	—	1.04	1.10	0	26	0	Prof. O. M. Cone.	
Mineral Bluff.	Fannin.	1,571	—								2.03	1.00	0	4	22	5	4	M. G. McComb.		
Montezuma.	Macon.	292	8	62.2	—	0.8	88	10	31	31	37	3.91	+	1.18	1.55	0	26	3	W. T. S. Dickey.	
Monticello.	Jasper.	800	18	62.2	—	1.0	89	10	30	21	38	3.08	+	0.43	1.30	0	22	3	J. C. Collins.	
Newman.	Coweta.	959	24	61.1	—						2.93	0.92	0	9	22	5	4	Miss Maude Penn.		
Norcross.	Gwinnett.	1,078	3								2.01	0.58	0	6	24	5	2	Mrs. Ida J. Milner.		
Ocilla.	Irwin.			63.5	—						1.06	—	0	7	18	3	10	W. O. Medlock.		
Point Pater.	Oglethorpe.	600	23	60.2	—	0.3	82	6	30	31	39	2.74	+	0.12	1.75	0	24	4	J. J. Flanders.	
Poulson.	Worth.	365	23	65.1	—	0.7	95	11	34	21	45	2.87	+	0.56	1.22	0	20	10	C. M. Witcher.	
Putnam.	Marion.	13	61.7	—	3.4	90	10	30	21	40	2.32	—	0.20	0.98	0	24	3	C. T. Merritt.		
Quitman.	Brooks.	173	27	65.8	—	2.0	90	9	36	21	41	3.09	+	1.01	1.67	0	29	0	Miss Mildred Collum.	
Ramhurst.	Murray.	900	20	58.9	—	2.3	85	6	26	21	38	1.44	—	1.18	0.62	0	21	3	A. B. Jones.	
Resaca.	Gordon.	657	19								1.06	—	0	7	18	3	10	D. E. Humphreys.		
Rome.	Floyd.	576	54	59.2	—	2.6	88	9	29	21	40	1.83	—	0.76	0.60	T.	7	24	D. A. Norton.	
St. George.	Charlton.	50	6	65.8	—						2.01	1.55	0	3	24	3	4	W. M. Towers.		
Savannah.	Chatham.	65	62	62.0	—	0.7	88	1	36	21	28	1.04	—	1.99	0.97	0	18	5	A. N. Lund.	
Statesboro.	Bullock.	253	13	65.8	—	0.1	91	11	34	22	37	2.43	+	0.22	2.00	0	21	8	U. S. Weather Bureau.	
Talbotton.	Talbot.	750	19	64.0	—	0.2	94	9	34	20	41	2.56	—	0.64	0.81	0	24	0	W. C. Cromley.	
Tallapoosa.	Haralson.	1,150	14	56.8	—	4.9	83	10	27	29	34	3.34	+	0.58	1.10	0	15	8	Dr. E. L. Bardwell.	
Thomasville.	Thomas.	273	31	65.0	—	3.5	93	6	34	21	43	3.32	+	0.19	2.82	T.	6	22	C. C. Sigman.	
Toccoa.	Stephens.	1,050	27	60.6	—	0.3	88	6	30	31	42	3.37	+	0.40	1.93	0	23	4	U. S. Weather Bureau.	
Valdosta.	Lowndes.	220	8	65.2	—						1.60	1.60	0	3	27	0	4	Miss Marian Craig.		
Washington.	Wilkes.	630	22	61.8	—	0.9	85	10	33	21	33	2.28	—	0.31	1.30	0	21	5	Miss Annie Twitty.	
Waycross.	Ware.	131	24	65.6	—	2.5	92	10	36	21	38	2.72	—	0.67	0.67	0	21	7	Miss Ella B. Smith.	
Waynesboro.	Burke.	86	21	62.3	—	1.1	90	11	32	22	38	0.30	—	1.98	0.18	0	23	1	Dr. J. R. Wilson.	
West Point.	Troup.	620	23	60.3	—	3.5	87	7	30	21	38	2.54	—	0.13	1.58	0	21	4	Mrs. H. W. Blount.	
Woodbury.	Meriwether.	641	12								4.03	—	1.71	2.37	0	5	5	E. N. Dunn.		
Florida.																				
Apalachicola.	Franklin.	24	8	69.1	—						5.82	3.20	0	5	22	5	4	A. F. Whiteside.		
Arcadia.	De Soto.	61	12	72.4	—	2.4	91	1	48	22	32	—	1.85	1.07	0	15	3	C. S. Bushnell.		
Archer.	Alachua.	92	23	70.4	—	1.0	89	1	45	21	34	2.91	+	0.33	1.95	0	16	12	R. B. Hodgson.	
Avon Park.	De Soto.	150	14	72.6	—	1.8	92	1	49	22	28	2.83	—	1.60	0.70	0	20	3	William King.	
Bartow.	Polk.	115	25	70.3	—	3.5	93	1	40	22	38	3.07	—	0.48	1.35	0	23	2	William Hood.	
Bassenger.	Osceola.			72.4	—						3.20	1.30	0	4	23	2	6	L. N. Kline.		
Bradenton.	Manatee.	10	29	71.4	—	2.5	91	10	46	22	35	2.80	—	0.02	0.90	0	18	9	F. H. Braymer, M. D.	
Bristol.	Liberty.										5.30	3.60	0	4	27	1	3	J. N. Harrell.		
Brooksville.	Hernando.	126	20	71.6	—	1.1	95	4	43	21	38	3.72	+	1.09	1.05	0	13	5	C. C. Peck.	
Carrabelle.	Franklin.	10	14	68.8	—	3.9	92	1	33	21	39	1.59	—	1.40	0.25	0	21	5	J. J. Blomquist.	
Cedar Keys.	Levy.	10	24	70.8	—	1.1	88	2	46	21	21	4.50	+	1.70	2.55	0	27	0	S. T. White.	
Clermont.	Lake.	105	19	73.6	—	0.8	95	1	48	22	33	2.12	—	1.12	1.70	0	18	7	S. S. Fessler.	
Crescent City.	Putnam.			15	71.8	—	0.0	95	1	41	21	37	3.33	—	1.05	1.95	0	19	7	Walter Cliff.
De Funiax Springs.	Walton.	193	14	65.7	—	2.4	89	8	34	21	33	3.58	+	0.38	1.42	0	21	7	W. O. H. Shepard.	
De Land.	Volusia.	27	16	69.0	—	2.8	95	10	35	21	46	4.85	—	0.25	2.50	0	25	3	Rev. W. J. Harkness.	
Eustis.	Lake.	56	22	71.0	—	1.8	95	1	40	22	42	1.84	—	1.17	1.42	0	24	3	C. T. Smith.	
Federal Point.	Putnam.	10	21	70.6	—	0.6	94	11	45	22	39	1.68	—	3.38	1.18	0	26	6	E. Hubbard.	
Felismere.	St. Lucie.										2.11	1.07	0	6	16	5	10	W. A. James.		
Fenolloway.	Taylor.	75	6	68.8	—						2.12	2.10	0	2	18	0	se.	J. Wigglesworth.		
Fernandina.	Nassau.	10	20	70.6	—	0.2	93	1	42	21	33	1.90	—	3.35	1.30	0	24	5	T. C. Borden.	
Fort Lauderdale.	Nassau.	10	20	70.6	—						2.13	0.58	0	8	0	24	5	W. M. Heine.		
Fort Meade.	Dade.	10	1	73.7	—						2.18	0.58	0	5	1	25	5	G. L. Brodrick.		
Fort Myers.	Polk.	125	23	70.8	—	2.9	94	1	40	23	41	3.54	—	0.30	1.30	0	23	5	W. F. Gwynne.	
Fort Pierce.	Lee.	12	40	73.3	—	1.9	89	10	51	22	37	2.47	+	0.19	1.01	0	23	5	T. C. Nicholson.	
St. Lucie.	Alachua.	10	12	73.8	—	2.0	92	9	51	21	31	2.47	—	3.52	1.25	0	18	7	John Schnabel.	
Gainesville.	Walton.	176	17	67.8	—	3.2	91	1	39	21	37	2.53	+	0.05	2.35	0	21	7	U. S. Forest Service.	
Garnier (near).	Columbia.	22	1	66.3	—						3.05	1.18	0	6	21	7	3	J. B. Scott.		
Gramsire.	Orange.	175	15	70.6	—	1.9	94	1	41	21	35	2.91	—	0.25	2.35	0	21	5	T. M. Griffin.	
Griffin.	Dade.										2.41	1.05	0	6	11	15	5	B. A. Griffin.		
Hilliard.	Nassau.	69	4	66.4	—						1.20	0.52	0	2	23	7	1	J. A. Kahl.		
Homestead.	Dade.	12	3	76.1	—						2.18	0.52	0	7	13	14	4	G. A. Angrave.		
Hypoluxo.	Palm Beach.	9	17	75.4	—	1.7	93	2	49	21	28	4.19	—	7.05	2.72	0	8	4	W. H. Miller.	
Inverness.	Citrus.	43	13	68.0	—	4.2	89	1	44	21	33	3.06	+	1.70	1.25	0	17	4	U. S. Weather Bureau.	
Jacksonville.	Duval.	108	43	69.2	—	0.4	90	11	42	21	46</td									

TABLE 1.—Climatological data for October, 1913. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
Florida—Continued.																					
Pinellas Park	Pinellas	20	2	71.8	.....	88	1†	46	22	29	1.63	.....	0.53	0	6	18	8	5	nw.	Miss E. Borgman.
Plant City	Hillsboro	121	19	71.2	- 2.2	90	1†	45	22	30	2.71	+ 0.03	1.25	0	4	22	9	0	s.	E. B. Trask.	
Rita	Palm Beach	73	2	73.2	.....	90	2†	53	17†	34	2.1	.....	0.47	0	6	24	4	3	ne.	M. Toda.
Rockwell	Marion	10	11	67.04	- 5.7	90	2†	41a	20	37	2.80	+ 0.97	1.30	0	3	26	0	5	nw.	Dunellon Phosphate Co.	
St. Augustine	St. Johns	10	61	70.4	- 1.8	96	10	38	21	40	1.72	- 3.40	1.40	0	3	30	0	1	w.	E. J. Joyce.	
St. Cloud	Osceola	71	4	71.4	.....	92	11	45	22	34	3.65	.....	1.72	0	4	19	2	10	w.	J. T. Barnes.
St. Leo	Pasco	140	16	71.2	- 1.8	92	10	46	21†	31	2.21	- 0.36	0.87	0	6	20	5	6	w.	Gerard Schneider.	
Sand Key	Monroe	1	77.8	86	5	68	22	11	4.88	.....	2.66	.....	11	20	5	6	ne.	U. S. Weather Bureau.		
Sanford	Orange	25	5	71.0	.....	93	1	42	22	34	1.66	.....	0.90	0	7	16	8	7	ne.	H. C. DuBose.
Satsuma Heights	Putnam	98	5	68.0	.....	90	1†	39	21	37	1.77	.....	1.33	0	4	23	4	4	nw.	Satsuma Co.
Switzerland	St. Johns	10	20	68.7	- 1.4	92	10†	44b	21†	39b	1.91	- 2.40	0.92	0	3	24	4	3	nw.	Mrs. W. C. Steele.	
Tallahassee	Leon	192	26	66.6	- 1.4	91	9	37	21	32	3.70	+ 0.60	2.30	0	6	16	7	8	nw.	W. H. Markham.	
Tampa	Hillsboro	79	23	71.8	- 0.8	89	1	48	22	23	1.54	- 1.43	0.73	0	6	15	6	10	e.	U. S. Weather Bureau.	
Tarpon Springs	Pinellas	20	28	71.1	- 1.8	91	10	32	22	32	2.58	+ 0.41	1.19	0	3	21	2	5	nw.	A. P. Albaugh, M. D.	
Titusville	Brevard	16	17	71.6	- 1.5	93	1	47	21†	29	5.58	+ 0.33	2.21	0	11	15	6	10	w.	F. M. Taylor.	
Waushau	Washington	230	13	61.8	.....	92	7	32	20	47	5.39	+ 3.45	2.89	0	3	24	5	2	.....	Curtis Jones.
Zuma	Dade	72.1	91	2	40	21	39	2.79	1.29	0	6	H. C. Davis.
Alabama.																					
Alaga	Houston	105	8	.....	.....	91	9	41	23	31	2.25	.....	2.34	0	4	25	0	6	.....	James L. Willis.
Andalusia	Covington	488	68.4	.....	.....	87	10	28	21	39	2.36	+ 0.32	0.98	0	7	14*	6*	8*	nw.	T. E. Balsden.
Anniston	Calhoun	728	22	58.4	- 4.0	87	20	28	21	38	0.77	- 1.92	0.28	0	5	19	5	8	.....	U. S. Weather Bureau.
Ashville	St. Clair	685	20	57.8	- 3.5	84	9†	26	21	38	0.77	- 1.92	0.28	0	5	18	5	8	nw.	A. L. Cather.	
Auburn	Lee	732	31	64.4	+ 0.1	92	10	32	21	33	3.14	+ 0.33	1.86	0	7	7	6	6	n.	Dr. James T. Anderson.	
Benton	Lowndes	149	12	.....	.....	.....	.....	.....	.....	.....	1.54	- 0.81	0.42	0	5	19	6	6	n.	S. T. Pruitt.
Bermuda	Conecuh	26	62.2	- 2.4	88	10	31	21	39	1.97	- 0.46	1.04	0	5	16	6	9	n.	M. J. Morris.		
Birmingham	Jefferson	701	25	60.4	- 4.0	85	10	29	30	34	1.55	- 0.79	0.80	T.	7	16	6	9	n.	U. S. Weather Bureau.	
Calera	Shelby	500	12	.....	.....	.....	.....	.....	.....	.....	2.09	- 0.59	1.15	0	6	12	14	5	sw.	L. G. Privett.
Camp Hill	Tallapoosa	738	12	59.2	- 5.4	89	.....	28	21	38	2.50	+ 0.77	1.00	0	3	19	4	8	se.	Dr. Lyman Ward.
Citronelle	Mobile	331	25	65.8	- 2.3	89	9	33	28	32	1.63	- 1.38	0.70	0	6	19	4	8	.....	Rev. W. H. Rowe.
Clanton	Chilton	590	20	60.0	- 3.2	90	10	29	21	40	2.57	+ 0.25	1.55	0	6	18	5	8	.....	Joseph B. Downs.
Cochrane	Pickens	100	3	.....	.....	.....	.....	.....	.....	.....	0.90	.....	0.50	0	2	22	0	9	n.	T. H. G. Cooke.
Cordova	Walker	334	22	59.6	- 2.1	89	10	25	21	41	1.15	- 1.39	0.80	0	3	22	0	9	n.	Scott Maxwell.	
Culman	Cullman	802	5	57.3	.....	86	9	20	21	39	3.75	.....	1.05	T.	6	18	6	7	n.	Eugene A. Grayot.
Dadeville	Tallapoosa	760	8	.....	.....	.....	.....	.....	.....	.....	3.06	.....	0.5	0	20	7	4	ne.	Dr. W. B. Fulton.	
Daphne	Baldwin	22	66.0	- 2.6	88	1	33	21	35	1.76	- 2.31	0.90	0	5	20	7	4	ne.	John H. Young.		
Demopolis	Marengo	21	.....	.....	.....	.....	.....	.....	.....	.....	2.19	+ 0.10	0.82	0	5	14	5	8	.....	George E. Pegram.
Eufaula	Barbour	200	29	59.2	- 5.6	83	9†	30	21	39	2.58	+ 0.24	1.76	0	5	13	4	8	.....	Dr. J. B. Whitlock.
Evergreen	Conecuh	285	29	64.2	- 0.8	93	9	30	21	36	3.30	+ 1.30	2.00	0	5	12	4	8	.....	George W. Salter.
Floマton	Escambia	91	21	65.04	- 1.0	94	8	32	21	42d	2.32	.....	0	5	11	5	8	.....	T. J. Farris.	
Fort Deposit	Lowndes	520	29	65.0	+ 0.1	87	10	30	21†	28	5.30	+ 3.05	3.40	0	4	15	11	5	.....	J. F. Hattemer.
Gadsden	Etowah	621	29	60.2	- 1.7	90	9	28	21	42	0.96	- 1.63	0.65	0	4	15	11	5	.....	D. P. Goodhue.
Goat Rock	Lee	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.11	.....	0.98	0	6	20	2	9	n.	B. B. Hamby.
Goodwater	Coosa	820	18	57.7	- 6.2	88	10	27	21	38	3.47	+ 1.08	1.86	0	6	20	2	9	n.	Miss Daisy Buice.	
Greensboro	Hale	220	34	61.6	- 2.8	80	10	31	20	38	1.15	- 0.96	0.50	0	6	20	2	9	n.	W. E. W. Terby.	
Greenville	Butler	444	12	.....	.....	.....	.....	.....	.....	.....	1.10	- 0.89	0.68	0	2	15	5	7	n.	E. M. Lewis.
Hamilton	Marion	17	61.5	- 0.5	90	6†	22	21	44	2.20	- 0.43	0.90	0	4	15	11	5	.....	Prof. H. O. Sargent.	
Healing Springs	Washington	362	1	.....	.....	.....	.....	.....	.....	.....	1.14	.....	0.51	0	5	20	7	4	w.	James E. Lipscomb.
Highland Home	Crenshaw	21	64.1	- 2.3	89	10	33	20	32	1.94	- 0.44	1.05	0	6	22	0	9	n.	Prof. Samuel Jordan.		
Livingston	Sumter	160	29	60.3	- 3.2	86	10	31	21†	35	2.24	+ 0.19	1.11	0	6	22	0	9	n.	Robert L. King.	
Lock No. 4	Talladega	510	16	60.4	- 2.4	87	9†	28	21	38	1.77	- 0.61	0.95	0	4	15	2	14	w.	U. S. Engineers.	
Maple Grove	Cherokee	20	59.0	- 1.7	90	11	28	21	42	1.31	- 1.24	0.87	0	4	15	11	5	.....	Mrs. A. L. Awdrey.	
Mentone	DeKalb	1,595	6	.....	.....	.....	.....	.....	.....	.....	2.41	.....	1.50	T.	6	20	7	4	.....	E. Mason.
Mistletoe	Macon	10	.....	.....	.....	.....	.....	.....	.....	.....	3.72	.....	1.62	0	6	20	7	4	w.	W. U. Wall.
Mobile	Mobile	84	41	65.5	- 1.6	85	1	38	28	37	1.70	- 1.48	1.40	0	4	17	10	4	n.	U. S. Weather Bureau.	
Montgomery	Montgomery	240	41	63.1	- 2.6	85	10	34	30	32	2.20	- 0.24	1.02	0	5	17	4	9	n.	Do.	
Newbern	Hale	21	61.5	- 4.0	91	9	28	30	39	1.32	- 0.53	0.94	0	5	18	4	9	w.	Dr. J. Huggins.		
Oneonta	Blount	857	19	58.2	- 2.4	86	9†	25	21	40	1.21	- 1.39	0.85	T.	0	4	15	2	14	w.	Aquilla J. Ketchum.
Opelika	Lee	917	34	62.0	- 2.1	85	10	30	21	38	2.30	+ 0.29	1.32	0	4	15	2	14	w.	A. H. Read, Jr.	
Ozark	Dale	400	11	62.2	.....	85	8†	32	22	35	2.40	.....	2.00	0	2	15	5	7	n.	James A. Scott.
Prattville	Autauga	281	13	60.4	- 4.1	85	10	30	21	39 ^b	1.64	- 0.87	0.61	0	5	9	9	13	nw.	Joseph B. Bell.	
Pushmataha	Choctaw	22	63.2	- 0.8	88	10	30	28	35	1.40	- 0.87	0.61	0	5	9	9	13	nw.	W. N. Horn.		
Robertsdale	Baldwin	148	1	.....	.....	.....	.....	.....	.....	.....	0.76	.....	0	6	12	16	3	n.	Carl Boseck.	
Selma	Dallas	147	33	61.6	- 4.1	90	9†	30	21†	39	1.30	- 0.75	0.75	0	6	20	7	4	n.	Chas. F. Brislin.	
Spring Hill	Mobile	312	9	63.7	.....	84	8†	35	20	35	1.81	.....	0.85	0	5	19	5	7	n.	Spring Hill College.
Talladega	Talladega	554	23	60.0	- 3.9	86	10	32	21	40	2.										

TABLE 1.—*Climatological data for October, 1913. District No. 2—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.							
<i>Mississippi—Contd.</i>																				
Hickory.	Newton.	326	3								2.69		1.10	0	9	13	6	12	s.	T. N. McMullen.
Jackson.	Hinds.	280	26	64.0	- 0.2	91	9	30	30	40	2.18	+ 0.05	1.44	0	10	13	6	12	se.	A. S. Nall.
Lake.	Scott.	446	25	60.6	- 1.7	86	9	28	21	39	2.22	+ 0.04	1.00	0	9	15	1	15	ne.	Mrs. Eddie McNeel.
Laurel.	Jones.	241	9	62.8		89	9	29	28	41	1.77		1.00	0	5	17	3	11	nw.	Thomas W. Flynt.
Leakesville.	Greene.	19	64.6 ^b	- 2.3	91	8	30	28	41	3.78	+ 1.17	2.00	0	3						
Louisville.	Winston.	561	24	63.0	- 0.8	90	9	30	21 ^f	37	1.62	- 0.28	0.84	0	5					
McNeill.	Pearl River.	230	10	65.2	- 2.5	86	9	34	28	38	2.54	- 0.16	1.81	0	8	18	6	7	nw.	Prof. E. B. Ferris.
Macon.	Noxubee.	185	25	60.4	- 2.8	90	9	28	21 ^f	43	1.35	+ 0.08	0.40	0	7	17	4	10	w.	Fins E. Carleton.
Magnolia.	Pike.	415	17	64.4	- 2.4	87	8 ^f	32	28	33	4.74	+ 2.14	2.30	0	8	13	10	3	nw.	Miss Ruby V. Roberts.
Meridian.	Lauderdale.	375	23	61.4	- 1.6	86	9	32	28	31	2.14	- 0.56	0.93	0	8	12	5	14	n.	U. S. Weather Bureau.
Merrill.	George.	76	8								4.21		2.00	0	5	23	0	8	n.	James E. Walters.
Monticello.	Lawrence.	209	6	63.6		88	10	31	30	39	2.43		1.85	0	6	17	8	6	nw.	Dr. G. A. Teunissen.
Okolona.	Chickasaw.	311	25	59.7	- 2.1	89	9	27	30	42	2.47	+ 1.00	0.85	0	6	17	1	13	s.	E. J. Henson.
Pascagoula.	Jackson.	15	4								39	28								McVea Young.
Pearlington.	Hancock.	10	25	65.3	- 2.1	85	27	36	28	29	3.52	+ 0.71	1.66	0	8	12	11	8	ne.	Miss Annette Koch.
Porterville.	Kemper.	8	62.3			89	9	28	21	38	1.16		0.81	0	5	11	15	5	nw.	I. S. Rea.
Shubuta.	Clarke.	197	8								2.81		1.16	0	5					George A. Floyd.
Tupelo.	Lee.	278	14	60.8		87	9	27	21 ^f	37	2.79	+ 0.92	1.05	0	9	17	7	7	s.	W. S. Vincent.
Waynesboro.	Wayne.	191	26	61.7	- 2.6	87	9 ^f	30	28	43	5.42	+ 3.59	3.15	0	9	15	6	10	n.	R. S. Burke.

*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1913.* District No. 2, South Atlantic and East Gulf States.

TABLE 2.—*Daily precipitation for October, 1913. District No. 2—Continued.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 2—Continued.*

TABLE 2.—*Daily precipitation for October, 1913. District No. 2—Continued.*

* Precipitation included in that of the next measurement.

Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.
Precipitation is less than 0.01 inch rain or melted snow.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures at selected stations for October, 1913. District No. 2, South Atlantic and East Gulf States.*

Date.	Virginia.										North Carolina.																	
	Callaville.		Hot Springs.		Lynchburg.		Norfolk.		Richmond.		Charlotte.		Edenton.		Fayetteville.		Hatteras.		Newbern.		Raleigh.		Reidsville.		Salisbury.		Wilmington.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	85	63	68	54	79	62	79	64	81	62	81	64	85	65	86	60	80	66	88	64	82	65	81	62	84	62	83	68
2....	80	61	65	50	72	56	76	58	78	56	76	57	86	70	82	59	76	59	83	57	76	59	75	56	86	63	78	60
3....	73	53	60	46	72	56	66	54	69	53	74	54	78	65	76	55	66	61	71	52	72	53	71	53	85	62	73	55
4....	78	49	72	40	79	52	72	55	75	53	78	50	80	66	80	53	71	61	80	52	75	53	73	49	85	61	75	54
5....	82	43	70	38	85	46	72	72	77	57	83	54	77	50	85	51	73	62	78	49	80	55	80	49	82	60	79	54
6....	83	43	76	48	82	48	68	62	79	54	79	54	73	56	84	53	69	56	86	56	80	56	77	51	84	45	80	56
7....	70	63	68	48	67	62	72	64	68	63	70	60	82	64	73	62	76	68	80	61	70	64	71	49	79	65	78	65
8....	78	66	70	60	73	65	78	67	76	66	74	65	83	67	74	67	79	71	83	68	75	67	73	64	80	53	74	67
9....	81	65	69	61	73	66	76	67	75	68	77	66	85	68	78	68	80	69	89	68	77	69	73	65	82	65	78	68
10....	76	67	74	62	77	67	75	68	74	66	80	66	77	67	75	67	78	71	81	69	73	66	74	65	83	65	74	69
11....	75	65	84	65	74	65	78	67	71	65	83	64	85	69	78	68	77	72	84	69	73	67	75	64	83	65	74	69
12....	72	54	73	45	70	51	70	55	68	49	72	68	63	55	75	56	70	59	72	60	72	60	68	56	69	53	75	44
13....	68	41	70	40	68	44	62	50	64	50	72	50	75	50	71	50	68	57	69	45	66	51	65	47	73	50	70	51
14....	70	36	69	32	75	38	66	49	68	44	72	47	65	43	73	42	64	54	70	44	69	44	68	39	75	36	67	46
15....	80	44	71	40	79	52	72	53	76	52	80	50	75	45	83	49	71	59	78	44	77	54	78	50	74	42	78	51
16....	81	44	71	45	83	53	72	57	77	52	81	57	75	46	84	58	73	61	82	47	80	58	79	53	83	44	80	56
17....	80	49	69	48	76	53	71	57	72	51	81	58	75	49	87	59	72	59	84	52	82	57	74	52	82	47	85	61
18....	74	56	67	46	71	60	78	59	70	57	70	63	80	57	88	60	77	61	86	57	72	62	78	60	83	49	81	64
19....	64	53	68	49	63	49	67	61	64	52	65	58	70	61	79	64	74	68	74	60	66	59	61	75	45	75	64	
20....	65	45	65	37	56	42	67	47	64	45	58	38	69	51	67	46	74	50	72	64	65	42	61	72	45	68	44	
21....	54	39	56	30	48	36	54	41	52	32	50	34	58	41	56	36	56	47	61	38	51	36	49	35	71	40	55	39
22....	57	23	48	20	54	30	54	40	55	29	59	34	55	31	61	29	58	45	61	33	56	34	53	29	57	38	53	38
23....	63	27	56	32	59	33	63	48	64	35	64	39	67	36	72	34	68	55	73	37	64	38	61	36	75	39	69	43
24....	68	55	57	47	64	51	71	59	67	54	73	55	75	54	70	59	75	57	73	47	68	56	70	51	72	52	75	63
25....	68	53	64	48	67	49	70	50	68	52	82	48	70	58	69	50	67	53	73	58	63	50	66	49	73	52	69	51
26....	72	44	60	34	72	49	71	47	72	45	72	47	70	49	74	48	67	56	74	47	69	48	66	48	72	45	71	49
27....	75	39	62	33	71	41	74	53	74	48	73	50	74	47	75	44	72	58	73	49	73	48	70	40	74	56	69	39
28....	77	57	60	50	71	53	76	62	77	54	61	48	75	61	76	59	73	69	75	54	74	52	69	56	73	57	63	63
29....	66	41	55	30	66	40	67	52	64	47	65	45	60	41	69	54	65	43	69	60	64	56	62	46	66	37	63	54
30....	61	40	53	37	59	42	60	46	60	42	60	37	60	35	66	42	63	51	66	41	60	40	59	37	60	35	63	46
31....	55	30	44	32	54	33	52	42	53	35	52	34	55	32	57	34	57	47	60	37	54	35	50	34	55	30	56	37
Mns.	72.0	48.6	65.0	43.5	69.6	40.8	69.3	55.2	69.4	51.1	70.6	51.5	73.5	53.6	74.7	52.4	70.8	60.3	73.7	52.7	70.1	52.9	68.9	50.2	75.5	48.3	72.3	55.3

Date.	South Carolina.												Georgia.															
	Charleston.		Columbia.		Conway.		Ferguson.		Georgetown.		Greenville.		Newberry.		Society Hill.		Albany.		Atlanta.		Augusta.		Dahlonega.		Macon.		Rome.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	89	72	86	68	90	66	89	67	87	71	81	62	86	65	80	64	88	70	78	63	86	69	76	60	85	67	83	67
2....	81	66	80	61	81	61	81	58	80	64	80	55	80	57	80	50	85	65	78	63	81	63	79	57	82	59	78	49
3....	77	61	76	56	77	54	79	51	76	58	77	48	78	50	85	49	83	56	73	54	78	53	77	56	82	53	78	49
4....	77	59	79	52	80	57	80	49	78	53	81	47	82	47	87	51	85	57	79	54	76	57	82	52	81	46	78	46
5....	80	60	84	51	83	47	78	63	80	51	82	48	84	46	89	53	83	55	80	64	82	52	78	53	84	46	78	46
6....	82	60	84	54	84	50	85	60	80	53	85	50	84	54	86	50	76	53	88	54	83	56	80	55	85	55	85	52
7....	76	64	74	50	78	61	78	62	83	51	77	50	75	44	86	52	82	51	81	57	75	56	80	55	85	55	85	52
8....	72	63	76	57	73	63	75	65	74	67	81	61	80	66	86	68	72	68	86	62	81	63	82	56	84	53	88	57
9....	75	69	72	68	73	69	75	64	79	64	84	62	80	66	86	66	76	66	87	61	83	68	86</td					

TABLE 3.—Maximum and minimum temperatures for October, 1913. District No. 2—Continued.

Date.	Georgia.												Florida.															
	Savannah.		Thomasville.		Waycross.		West Point.		Avon Park.		Fort Myers.		Jacksonville.		Key West.		Marianna.		Miami.		Orange City.		Orlando.		Pensacola.		Tallahassee.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	88	71	89	69	89	70	93	66	92	70	88	71	90	73	86	79	84	69	87	73	96	67	90	77	82	71	89	70
2....	82	66	83	67	84	68	80	59	90	72	87	72	86	71	85	77	84	60	91	71	98	67	87	70	84	70	85	70
3....	78	59	84	55	84	58	78	50	86	76	86	72	83	63	86	80	88	50	89	73	90	59	85	68	83	66	85	59
4....	80	58	85	50	85	50	80	47	88	60	86	66	83	58	85	78	89	52	86	64	91	51	84	57	80	64	86	56
5....	83	60	87	53	85	53	83	50	88	63	85	65	83	63	84	73	91	62	83	77	90	54	83	61	79	66	86	62
6....	85	62	89	56	89	53	85	53	87	63	84	66	85	61	85	74	92	52	82	67	90	55	83	59	79	73	88	63
7....	76	62	83	54	87	53	87	55	88	64	85	64	84	61	85	73	89	58	83	66	90	55	85	60	83	71	89	61
8....	80	67	85	58	84	57	83	57	89	65	86	65	84	64	86	73	92	60	85	69	90	58	87	67	81	69	86	60
9....	82	70	90	61	88	62	87	58	89	65	86	68	88	67	86	74	94	62	86	70	94	60	84	64	83	70	91	61
10....	84	67	93	64	92	63	87	59	91	68	89	69	88	67	87	80	92	62	86	73	93	60	88	64	82	72	88	64
11....	86	70	91	66	92	64	86	61	90	69	87	71	90	69	86	76	82	63	87	74	95	63	87	67	85	68	90	65
12....	84	62	84	61	86	66	76	50	86	68	85	68	89	68	86	75	85	48	84	69	93	61	87	65	82	59	85	66
13....	77	54	82	51	82	52	80	43	82	64	84	71	77	61	86	75	85	45	86	66	82	60	50	69	79	56	83	52
14....	74	54	81	45	81	45	78	44	80	62	81	65	76	58	83	75	88	44	79	75	93	54	79	69	76	61	82	54
15....	80	52	86	43	83	43	80	42	83	59	80	66	81	56	82	74	90	46	81	64	86	50	79	57	79	59	83	51
16....	83	57	87	47	85	46	81	44	85	58	82	59	84	58	82	73	90	48	79	61	89	47	81	54	77	63	85	56
17....	85	61	86	55	86	47	79	49	84	59	82	59	81	56	84	73	92	51	81	59	91	48	83	53	79	71	84	56
18....	82	62	82	60	86	54	73	55	85	58	81	59	82	63	83	71	70	62	84	61	89	50	82	59	76	69	81	57
19....	69	61	69	54	72	58	67	60	87	61	83	62	72	65	85	74	60	53	83	66	89	60	84	65	62	88	63	47
20....	61	42	62	39	60	52	45	39	77	62	76	68	70	48	82	72	63	72	52	70	54	80	60	57	45	62	47	46
21....	57	36	59	34	58	36	58	30	65	50	68	56	60	42	74	65	70	35	72	57	64	37	61	47	60	43	60	37
22....	62	44	68	38	68	37	66	34	72	49	70	51	67	46	78	67	68	40	76	57	75	37	73	46	70	53	67	44
23....	70	51	71	52	77	40	65	38	80	61	85	63	79	63	84	73	68	54	82	75	83	52	80	55	73	55	71	50
24....	78	60	69	52	70	57	57	53	63	60	81	70	76	60	85	76	70	45	85	73	85	65	83	68	72	62	86	56
25....	66	50	68	46	75	48	67	46	78	61	77	63	70	54	80	72	60	45	80	67	77	54	75	59	70	51	70	46
Mns.	75.5	57.0	78.5	51.5	78.8	52.4	73.4	47.2	82.5	62.6	81.4	65.2	78.6	59.7	82.9	73.8	78.7	49.8	82.4	68.1	85.1	55.5	80.9	61.5	74.5	58.7	78.1	55.0

Date.	Alabama.												Mississippi.															
	Tampa, Fla.		Anniston.		Bermuda.		Birmingham.		Eufaula.		Mobile.		Montgomery.		Tuscaloosa.		Uniontown.		Bay St. Louis.		Columbus.		Hattiesburg.		Jackson.		Meridian.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	89	73	81	59	85	66	84	64	82	64	85	68	86	68	88	68	85	64	83	71	85	65	81	67	80	60	87	
2....	86	73	80	55	78	79	60	77	62	65	81	71	81	67	84	63	86	65	87	70	84	62	80	69	77	64	83	
3....	84	69	76	47	80	54	78	52	76	53	83	65	78	58	83	52	82	52	83	60	82	57	80	60	70	57	83	51
4....	85	63	80	45	83	49	81	50	75	46	81	60	83	54	85	52	84	54	83	61	84	51	83	53	85	57	82	59
5....	85	64	83	52	83	54	83	60	79	48	78	73	83	68	85	50	84	56	78	71	86	64	84	66	74	59	82	59
6....	84	64	85	55	83	66	84	64	80	54	87	77	83	64	86	64	81	62	85	73	86	65	82	65	72	65	85	63
7....	86	64	80	56	82	63	84	65	80	52	84	68	86	63	88	64	83	66	85	74	83	65	82	67	71	65	85	66
8....	85	68	84	59	86	61	84	64	80	54	84	69	83	61	87	63	85	61	86	76	85	60	89	67	76	66	86	66
9....	85	67	86	58	87	69	85	62	83	55	87	68	83	68	82	62	85	65	85	76	89	61	89	63	73	63	86	63
10....	88	67	87	60	88	60	85	65	83	57	83	69	88	64	82	60	86	60	85	71	88	63	90	66	86	55	86	66
11....	85	71	79	55	84	60	73	53	83	58	84	68	85	64	82	62	85	59	85	65	70	65	82	67	72	57	85	
12....	87	70	71	45	74	51	71	47	75	53	74	57	73	52	75	48	80	48	77	53	74	44	82	45	71	49	87	
13....	83	65	78	41	82	52	79	45	78	43	80	54	79	50	82	45	80	47	81	58	83	44	82	45	76	47	87	
14....	81	61	81	42	81	46	79	55	75	41	81	54	80	50	84	45	82	50	82	56	84	44	85	44	70	50	85	
15....	81	60	76	43	84	44	76	51	78	39	81	56	81	49	84	46	83	50	81	51	84	48	88	45	51	79	49	
16....</td																												